Expression of Interest (EOI)

1. **Subject:**

   Invitation of quotation rates from the eligible bidders for "GIS Based Asset Mapping Survey And Digitization of Electrical Assets In Peri Urban Area of BESCOM for Implementation of Distribution Automation System(DAS) and 20 IPDS towns of BESCOM for incremental asset data"

2. **Introduction & Background:**

   The Bangalore Electricity Supply Company Limited (BESCOM) uses a Geographic Information System (GIS) platform of ESRI ArcGIS 10.8 version for creating, managing and visualizing electrical network assets for 25 RAPDRP and 20 IPDS Town's of BESCOM and shares GIS Data to Distribution Automation System (DAS) for its Remote operations.

   Now the Distribution Automation System(DAS) is getting extended to Peri Urban area with 391 feeders across the BESCOM jurisdiction. In order to facilitate the GIS data to DAS operations, GIS based asset mapping survey and digitization of HT network assets like Poles, Transformers, RMU, Feeder Pillar Box, HT line (Over head and UG cables) needs to be carried out for these 391 feeders approximately. Also to capture the incremental asset data of both HT & LT network pertaining to 20 IPDS towns.

   Accordingly, this Expression of Interest (EOI) is being issued to discover the market price from eligible bidders for the GIS Bases Asset mapping survey and digitization of Electrical Assets in ESRI ArcGIS 10.8 version in BESCOM Schema.

3. **Scope of Work:**

The scope under this requirement shall include the following:

i. Mapping the location co-ordinates (Latitude-Longitude) of each of the electrical network entities from 66kV/33/11 kV system, RMUs, DTs and HT Poles/Feeder Pillar Boxes (over/under ground) from which HT customer is connected and of town's landmarks using "GPS" method while doing field survey. Collecting and developing attribute data of each network entity and mapped landmarks. Indicative Survey formats with attributes for various assets
ii. The GPS mapping must be done with +/- 2.5 m location accuracy.
iii. Preparation of digitized electrical network mapped on the base map in the pre-defined scale with features and attributes of assets collected through GPS survey for GIS application.
iv. After completion of survey, digitized HT network maps to be submitted to utility for validation and sign off

v. The data digitization by the bidder shall be in ESRI ArcGIS 10.8 version and as per the data model specified by the BESCOM

vi. After sign off, the final configured GIS data to be submitted to utility.

4. Particulars:

SL. NO.	DESCRIPTION	Unit of measurement	Quantity
1	Locating co-ordinates (Latitude-Longitude) using GPS, collection/updation of attribute database of following electrical network assets through field survey and development, codification, mapping.		
1(a)	66/11, 33/11 kV substations	Nos	70
1(b)	HT /LT overhead lines/underground cables along with associated line equipment's such as Poles, RMUs, Distribution Transformers, FPB etc.	Kms	4203
2	Preparation of digitized electrical network mapped on the base map in the pre-defined scale with features and attributes of assets collected through GPS survey for GIS application	Subdivision Count	36

Note: The above said quantities are only indicative.

5. Contract Period

The contract period will be for **Two** (02) Years (1st year for Initial Survey of 391 feeders and incremental data of 20 IPDS towns and 2nd year for Incremental Survey of all comprising of 2 cycles).

6. Eligibility Criteria for Bidders

a. The Bidder shall be a Company incorporated in India under the Companies Act 1956/Limited Liability Partnership Act 2008/Partnership act 1932 for at least 5 years.

b. The Bidder shall have valid ISO-9001:2015 certifications as on bidding date.

c. The Bidder shall have experience of executing GIS based Asset mapping, Survey, Data digitization and configuration services with cumulative value not less than 50% of Estimated Cost from not more than TWO such projects in utilities during last Ten years.

d. The Bidder should have an experience in GIS based Asset Mapping and Consumer Indexing project in electric power distribution utility covering area of Interest of at least 100sqKms during last Ten years for at least ONE project.

e. The Bidder shall not be blacklisted/defaulted by any Govt. Dept. (State & Central Govt./PSUs/Utilities) as on the last date of bids submission.

f. Entities blacklisted or debarred by any Government/PSU are not eligible.
g. This EOI is issued only to discover the prices for GIS based asset mapping survey and digitization of data.
h. Bidder may seek clarifications related to this EOI within the timeframe specified in KPP portal.
i. Bidder shall not disclose or use such information for purposes other than participation in this EOI.
j. EOIs shall not be considered in case of:
    - Incomplete or non-compliant submissions
    - Misrepresentation of facts
    - Conflict of interest
    - Submission after the deadline
    - Abnormal/subnormal quotes

Confidentiality: All information provided by the Tender inviting authority must be treated as confidential. BESCOM may at its own discretion may use the price discovered from the EOI for any projects/works/activities/tenders.

- Issuance of this EOI does not constitute a commitment to award or proceed with procurement.
- Breakup of prices shall be provided upon request from BESCOM for the quoted price in EOI.
- Validity: Price quoted shall remain valid for a period of 180 days from the date of submission of this EOI.
- Right to Reject: EOI inviting authority reserves the right to reject any or all EOIs without providing reasons.
- This EOI shall be cancelled after discovering price without any further notice.